

Little Locals

Mr. and Mrs. Joseph Bakewell, of Gary, Ind., are visiting relatives and friends here.

Mr. S. L. Palmbaum is in Baltimore on a business trip.

Money to Loan—Money to lend in any amount on Farm Land.

BLACKBURN SMITH.

Mr. Roger Shepherd, son of the late Rev. T. B. Shepherd and brother of Mr. Norman Shepherd, of Rockland neighborhood, who is now practicing law in the bustling city of Huntington, W. Va., was in this section during the holidays, visiting relatives and friends.

Miss Rothchild, of Baltimore, who has been visiting Mrs. S. L. Palmbaum, has returned home.

Mrs. Charles McGuire and little son have returned to Hoboken, N. J., after spending the holidays with relatives here.

Miss Nannie Moss Taylor is visiting friends in New York.

Mr. D. C. Snyder is at home again, after spending the holidays with his daughter, Mrs. C. E. Snyder, in Baltimore.

Shipping vesicles (to sheep, fat pigs and cattle) at the N. & W. Stock Yards Monday, Jan. 18. Seed corn of what you have to sell to A. D. Hardesty, Berryville, Va., or to meet at Charles Town, W. Va. G. F. Wald.

Miss Georgia L. Babbitt, of New Berryville, is visiting at the home of Mr. C. F. Wall, of Charles Town.

Two loads of truck stock for sale at Charles Town, about 800 pounds average. C. F. Wall.

Mr. and Mrs. T. A. Hoot and daughter, of Clark County, have returned from a visit to Mrs. Hoot's father, Mr. Martin Hoot, owner of the leading oil fields of Pennsylvania.

Money to Loan—Money to lend in any amount on Farm Land.

Confederate Ladies Meet Tomorrow

The Daughters of the Confederacy will meet at the residence of Mrs. R. P. Page on Thursday afternoon at 3 o'clock.

M. H. KERFOOT, Secretary.

Lightning Rods

The Latest Improved Rods, at very low prices.

Work Guaranteed.

Cast & Steel Ranges

From \$15.00 to \$60.00.

Guaranteed to give perfect satisfaction.

A complete line.

Kitchen Utensils

A call will convince you that you save money when you buy from

D. R. ESKEY

109-115 W. Water Street
Winchester, Va.

JOHN TWOHIG COCHRAN

THE PLAINS, VA.

CONTRACTOR FOR

Acetylene Gas Lighting Plants

SANTA CLAUS Headquarters

Toys, Candies Nuts & Everything for X-mas

Groceries, Fruits, Vegetables

BERRYVILLE Supply Co.

Plant Wood's Seeds For The Garden & Farm.

Thirty years in business, with a steadily increasing trade every year—until we have to-day one of the largest businesses in seeds in this country—in the best of evidence as to the superior quality of Wood's Seeds.

Wood's Descriptive Catalog and monthly "Crop Special" have done more to encourage diversified farming and profitable market-growing of vegetable crops than any other similar publications.

If you want the best and most profitable crops,

Plant Wood's Seeds.

Wood's Descriptive Catalog and monthly "Crop Special," mailed free on request.

T. W. WOOD & SONS, Seedsmen, - Richmond, Va.

COINER'S SIXTH GREAT JANUARY SALE OF

Muslin Underwear

It is our aim to make this the greatest sale of dependable, daintily trimmed undermuslins we have ever planned for the ladies of Berryville, and you have heretofore attended many successful, satisfactory ones. The two leading reasons that created our supremacy cannot be too strongly emphasized. You know them, otherwise you would not come and continue coming in ever increasing numbers. Our qualities are what particular women want; our prices are in perfect accord with the governing principles of our business—The Lowest, The Very Lowest. Whether you have a mite to spend or a large amount, come here.

Sale Beginning TUESDAY, JANUARY 19, '09



\$1.00 worth of other Underwear must be purchased to obtain a Gown for 25c.

In addition to the above we have a beautiful line of Skirts, Gowns, Etc., at \$1.25, \$1.50 & \$2.00

COYNER & COINER

Clarke County

BERRYVILLE, VA.

CONFEDERATE FLAGS.

The Stars and Bars and Then the Red Battleflag.

The first Confederate flag was the stars and bars, a blue field and three stripes, one white and two red, and on the blue field seven white stars in a circle, a star for each state that up to that time had seceded. In battle, however, it was seen that this banner bore altogether too close a resemblance to the stars and stripes, and thus there came into use the Confederate battleflag, the origin of which seems to have been as follows:

This is the statement of General William L. Cabell: "When the Confederate army commanded by General Beauregard and the Federal army confronted each other at Manassas, it was seen that the Confederate flag and the stars and stripes looked at a distance so much alike that it was hard to distinguish one from the other. General Beauregard, thinking that serious mistakes might be made in recognizing our troops, after the battle of July 18, at Blackburn Ford, ordered that a badge should be worn on the left shoulder by our troops, and as I was chief quartermaster, ordered me to purchase a large amount of red flannel and to distribute it to each regiment."

This Confederate battleflag was adopted in September, 1861, and was designed by Generals Johnston and Beauregard. Red was its color, with a blue St. Andrew's cross reaching from corner to corner and white stars on the cross representing the different southern states. The women of the south made these flags by hundreds out of their red and blue silk dresses. Miss Constance Cary, who afterwards became Mrs. Burton Harrison, the well known novelist, was one of the three southern girls who made the first three battleflags—Magazine of American History.

Called Him In Writing. A tourist in an out of the way region of England put up one night at an amiable old lady's cottage; the village being far from the town. The tourist was very deaf, which the old lady took pains to impress upon the old lady, together with instructions to wake him at a particular hour in the morning. On waking a good deal later than the time appointed he found that the amiable old lady, with commendable regard for propriety, had slipped under his door a slip of paper on which was written:

"Sir, it is half past 8!"—Harper's Weekly.

Her Husband's Business. "Now, madam," said the gas man with the gray curl in the middle of his forehead after he had asked her twenty questions more or less apropos of her application for the privilege of paying for gas, "what is your husband's business? What is he doing now?"

"I can't be sure, of course," the woman replied, "but I have my suspicions. I had to divorce him before he fled."—New York Press.

A Stinging Retort. Was Pearl (prudently) going in a necklace which I am assured cannot be got from real pearls. Brass Ring (sarcastically)—Aw, they're stringing you.—Baltimore American.

Manning's Warehouse

Boyce, Virginia

HEADQUARTERS FOR

Spraying Outfits and Material
New Idea Manure Spreaders

SPECIAL SALE OF VEHICLES:

BABCOCK, STEWART, HESS AND PONTIAC

DON'T MISS IT

Home Course In Modern Agriculture

I.—How a Seed Starts to Grow

By C. V. GREGORY,

Agricultural Division, Iowa State College

Copyright, 1908, by American Press Association

A SEED is a simple thing to look at. It might as well be a pebble or a grain of sand for all there seems to be to it. Only a bean, you say, yet there's a great deal more to that bean than you ever dreamed of.

Take a bean—just an ordinary white bean out of the pantry—and look at it. The smooth white outer covering is the seed coat. It is almost water tight and is a protection for the parts that lie within. On one side you will notice a very conspicuous spot. This is the seed scar and is the place where the little stem that fastened the bean to the pod was attached. Near one end of the seed scar, or hilum, as the botanists call it, is a small round hole, the micropyle. If you put a bean in water it will soon begin to swell because of the water which it absorbs through the micropyle.

Now, take a bean that has been soaked for a few hours. The seed coat will come off easily. The part of the bean that is inside is found to be split in two lengthwise. These two halves are called cotyledons, which is only another name for seed leaves. Spread the cotyledons apart carefully. If you look closely you can see a little plant tucked away safely away between them. Just to one side of the middle is a small stem, the caulicle. Fastened to it is the plumule, a tiny

each of leaves so small that you may have difficulty in making them out. Farther on, at the end of the bean, is the stubby root, or radicle. These different parts are found in every seed, no matter how small.

Now that you have seen what is in the bean, examine a pumpkin seed in the same way. It is much the same inside as the bean, only flatter. The hilum is at the pointed end, and the plumule is so small that you may not be able to see it at all. In these two seeds there are only two main parts, the seed coat and the little plant. By far the greater part of the room inside the seed coat is taken up by the fleshy seed leaves.

Now let us look at a different kind of a seed. Take a kernel of corn that has been soaked for several hours and cut it in two lengthwise the narrow way. The back of the grain is made up in part of a hard, flinty substance and in part of a white, mealy layer. A large part of the front of the kernel is taken up by the soft, oily germ.

Look at the cut section of the germ carefully. The little plant can be made out very plainly. The little pointed stem which points upward and outward is the cotyledon. There is only one cotyledon in corn instead of two, as in the other seeds you have examined. You will take a cotyledon of a corn kernel that has been left in a warm place until it has commenced to grow and cut it in two lengthwise you will see that the inside is packed with layers of tiny leaves ready to unfold as soon as their turn comes. This is the plumule. The other parts of the little corn plant you will be able to make out with little trouble.

You have doubtless been wondering what the rest of the kernel, the part back of the germ, is for. While it is not a part of the plant itself, it is of very great use to it, as we shall see. The little plant when it begins to grow must have food. At first it has no roots to get its food from the soil, so it must get its nourishment from some other source. This source is the part of the kernel outside of the germ itself, or the endosperm. In the pumpkin seed and the bean the endosperm and the cotyledons are the same—that is, the food material is stored in the large, fleshy seed leaves.

This food material consists largely of starch and oil. Neither of these can be used by the developing plant without first being changed to a liquid form. This is one of the reasons why seeds will not germinate without water. The other reason is that the water is needed to soften the seed coat so the plant can get out. But this starch and oil will not dissolve in water without first being changed to a soluble form. This is accomplished by means of ferments called enzymes. If you put a piece of starch on your tongue for a moment you will find that it will begin to taste sweet. This is because the ferments in the saliva are changing it to sugar. The enzymes in the endosperm work in much the same way, changing the starch and oil to sugar and other soluble substances. These are dissolved by the water and go to feed the growing plant.

These enzymes cannot work without air and warmth. You already know that a seed will not germinate in cold ground, and if you will put some beans in a glass of water and leave

them for several days you will find that they will not germinate, no matter how warm they are kept, because they cannot get air. The reason is that without both air and warmth the enzymes cannot prepare the food for the plant, and if it cannot get food of course it cannot grow.

After the plant has started to grow the seed coat is no longer of any use to it. In some plants, such as corn, the little plant finds its way out very easily. The little pumpkin plant, with its heavy coat, has a harder time. Indeed, were it not for a little contrivance with which nature has provided it it could not get out at all. This is a tiny hook on the lower end of the seed. This hook catches on the end of the seed coat and peels it back as neatly as you take off your coat. Watch for this in a germinating pumpkin or squash seed and see if you cannot notice it. In some seeds, like hickory nuts, the plant is unable to get out until the seed coat is cracked by the frost or in some other way.

We have seen that a seed cannot start to grow unless it has moisture, warmth and air. It not only needs these, but it needs them in the proper proportions. In a light, sandy soil moisture is often lacking, and the seed is slow in germinating for this reason. In such a soil growth will start more quickly if the soil is packed tightly around the seed. The seed will soak up moisture more rapidly if the particles of soil are in close contact with it on all sides. Packing down the soil in the row with the flat side of a hoe or with a board or with the broad, flat planter wheels in the field helps the seed to absorb moisture and so hastens germination.

In a heavy, sticky clay soil there is usually plenty of moisture, but air is often lacking. If such a soil is packed down too tightly over the seed the particles are forced so closely together that very little air can get through, and hence germination is delayed. In a soil of this kind seeds should never be planted very deeply.

The most important factor of all is warmth. A cold soil may have moisture and air in exactly the right amounts, and still the seed will not start to develop. Even if it does begin to grow progress will be slow, and the plant will have a weak, unhealthy look. It is of the utmost importance to wait until the seed bed is warm before planting the seed. Many seeds which would rot or produce only spindling stalks if planted in a cold soil will grow into strong plants if planting is delayed until the soil has become warm. Any seed which makes a stronger, better producing plant if it has a warm seed bed to start from.

The rapidity with which soil will warm up in the spring depends a great deal upon the nature of the soil itself. A sandy soil warms up quickly because the air can get down into it easily, thus warming it all the way through at once. Another reason for the higher temperature of sandy soil is its greater dryness. As long as water is evaporating rapidly the ground will be cold. The process of evaporation requires a great deal of heat.

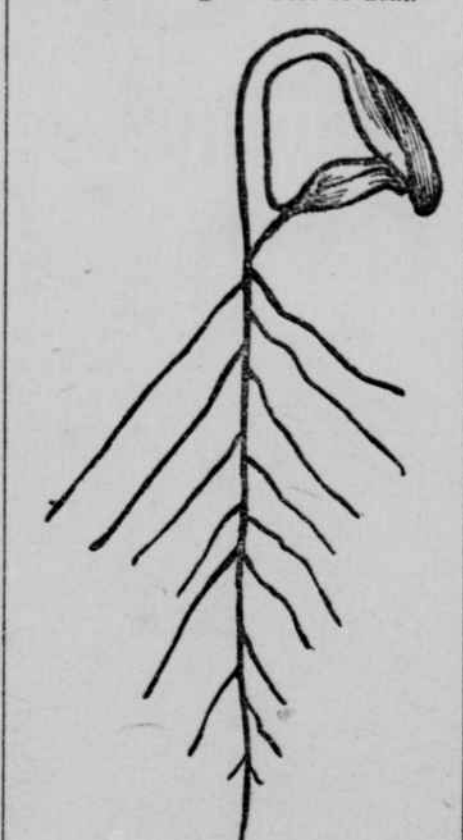


FIG. II.—HOW A SQUASH PLANT TAKES OFF ITS SEED COAT.

We can help the soil to become warm in the spring, then, by doing all that we can to check evaporation. Did you ever notice how quickly the surface of a wet field became dry after it had been harrowed? This is because stirring and loosening the soil stops the water from coming up from below. The water in the loose upper layer soon evaporates, and after that the heat is used in warming the soil instead of turning the water into vapor. Of course if we are not given off by evaporation we must provide tile drains and ditches to carry it away. We shall study more about drainage and the movement of water through the soil in another article.

I will sell you crushed corn or chicken feed, or will crush your corn for you. New mill just installed. P. R. PULLIAM.

THE OLD CHAPEL—An Historical Sketch. A handsome gift for a friend. 50c each at this office, or 60c by mail.

Clothing Furnishings Hats Shoes

W. O. Horsey & Co.

MEN'S TOGGERY

WINCHESTER, VA.

Hotel Jefferson

CHARLES TOWN, W. VA.

Under New and Up-to-Date Management

Free Buss Meets All Trains

The Bar is in charge of a good barkeeper who gives his personal attention to orders. All orders accompanied by cash will be filled promptly and shipped on return train.

All communications must be addressed to Manager Jefferson Hotel, Charles Town, W. Va.

O. L. JACK, Prop.

A FULL LINE OF

HEATING STOVES

SEE OUR LINE BEFORE BUYING

I. BOWMAN & SON, Berryville, Va

J. P. Kercheval & Co.

Successors to J. W. Marks

Main Street—Near Depot

Groceries, Confectionery,

Cigars & Tobacco

TINWARE

FRESH BREAD EVERY DAY

D. H. JONES

DEALER IN

HARDWARE AND GROCERIES

When in Need of Anything in Either Line, Call on Me, and I will Give You the Best Values for Your Money.

Full line of Hardware always in stock.

Builders' Hardware a Specialty.

Free Connections

THE BELL COMPANY
CONNECTS WITH THE

Frederick and Clarke Telephone Company

C. MULLIKIN, President
H. F. BYRD, Secretary

H. C. WARDEN, Vice-Pres. & Gen. Mgr.
SHIRLEY CARTER, Treasurer

covering every postoffice in Clarke county, with nearly 200 subscribers as follows:

White Post, Boyce, Millwood, Berry's Ferry, Briggs, Berryville, Wadesville, Gaylord, as well as all intermediate territory. Also giving free connections to Frederick and Jefferson counties. Only Telephone in Clarke county giving such an extended service.

For information call on or write

Southern Bell Telephone & Telegraph Company of Virginia

H. F. BYRD, Acting Manager,
Winchester, Va.

OR
H. C. WARDEN,
Berryville, Va.